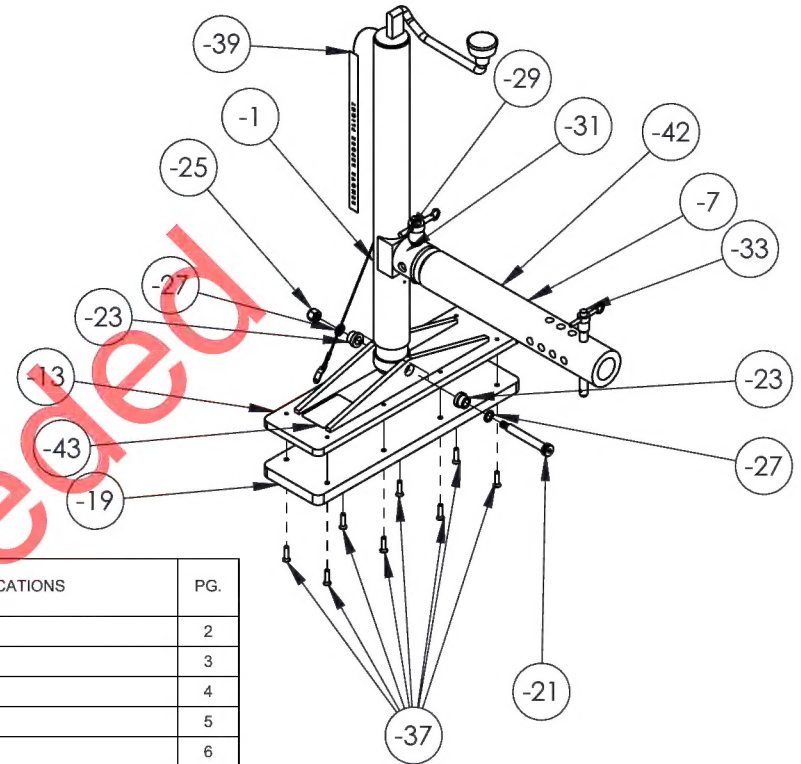
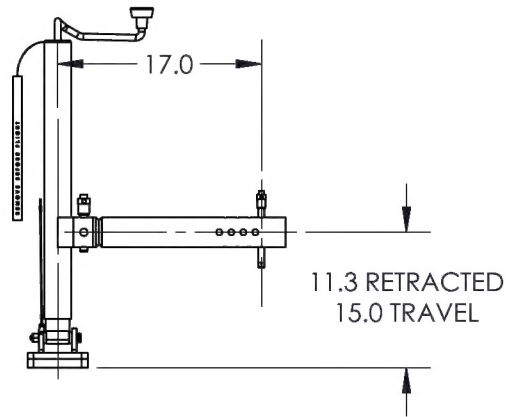


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED JACK FROM 178101 TO 178151, SHT 2 TUBULAR MOUNT LOCATION CHANGED, SHT 3 8-32 LOCATION MOVED	2/11/2011	JAG	
1A	ADDED SHT 13, 1st ARTICLE INSPECTION. SHT 12 CHANGED WEIGHT FROM 3500 TO 1800	2/25/2011	JAG	



ASSY QTY	ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
		X		-1	1	JACK WELDMENT			2
		1		-3		JACK	ALUMINUM	FULTON JACK # 178151	3
		1		-5		FOOT ADAPTER MOUNT	1018	2-1/4 OD x 2-1/8	4
	X			-7	1	TUBE INSERT WELDMENT			5
	1			-9		TUBE	6061	2-1/2 OD x 1/2 WALL x 15-5/8	6
	1			-11		ADAPTER PLUG	6061	2-1/2 x 4-1/8 ROUND BAR	7
X				-13	1	FOOT WELDMENT			8
1				-15		FOOT PLATE	6061	1/2 x 5 x 18 FLAT BAR	9
2				-17		GUSSET	6061	3/8 x 2-1/8 x 14-1/8	10
				-19	1	FOOT PAD	MARINE PLYWOOD	3/4 x 5 x 18	11
			B/O	-21	1	SHOULDER BOLT	18-8 S.S.	3/8-16 x 3-7/8 MCMaster-CARR #90298A725	1
			B/O	-23	2	DRILL BUSHING	CASE-HARDENED STEEL	1/2 x 3/8 MCMaster-CARR #8492A378	1
			B/O	-25	1	LOCK NUT	18-8 S.S.	3/8-16 x 11/16 W x 35/64 H MCMaster-CARR #90099A031	1
			B/O	-27	2	SHIM WASHER	18-8 S.S.	1/2 ID x 3/4 OD x .048 MCMaster-CARR #98126A694	1
			B/O	-29	1	BALL LOCK PIN	S.S.	Ø5/8 x 2-1/2 MCMaster-CARR #90980A645	1
			B/O	-31	1	LANYARD	S.S.	12" W TAB MCMaster-CARR #30345T24	1
			B/O	-33	1	BALL LOCK PIN	S.S.	1/2 x 4-1/2 MCMaster-CARR #90980A565	1
			B/O	-35	1	LANYARD	S.S.	24" W TAB MCMaster-CARR #30345T26	1
			B/O	-37	8	MACHINE SCREW	S.S.	1/4-20x 1 PHILLIPS FLATHEAD MCMaster-CARR #91771A542	1
			B/O	-39	1	REMOVE BEFORE FLIGHT	NYLON	NAS 1756-12	1
			B/O	-41	1	HOOK AND LOOP	NYLON	1" x 24" CINCH RING MCMaster-CARR #3955T229	1
			B/O	-42	1	MACHINE SCREW	S.S.	8-32 X 3/16 MCMaster-CARR #91770A188	1
				-43	1	PLACARD	ALUMINUM	USE RB41009 WITH T/N, S/N, AND LOAD SPEC	1
ASSY -13	ASSY -7	ASSY -1							

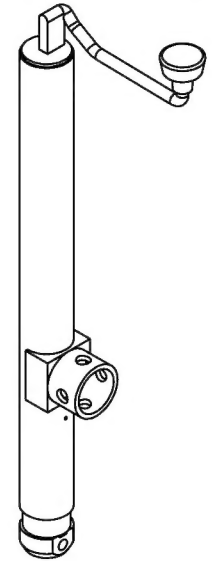
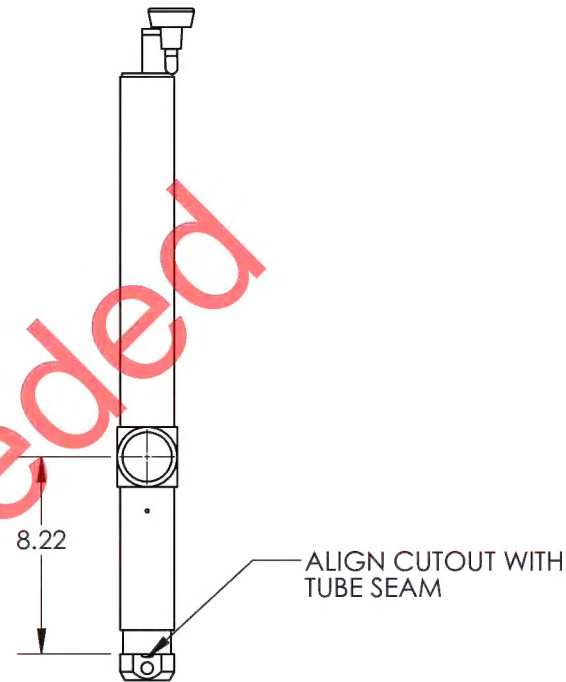
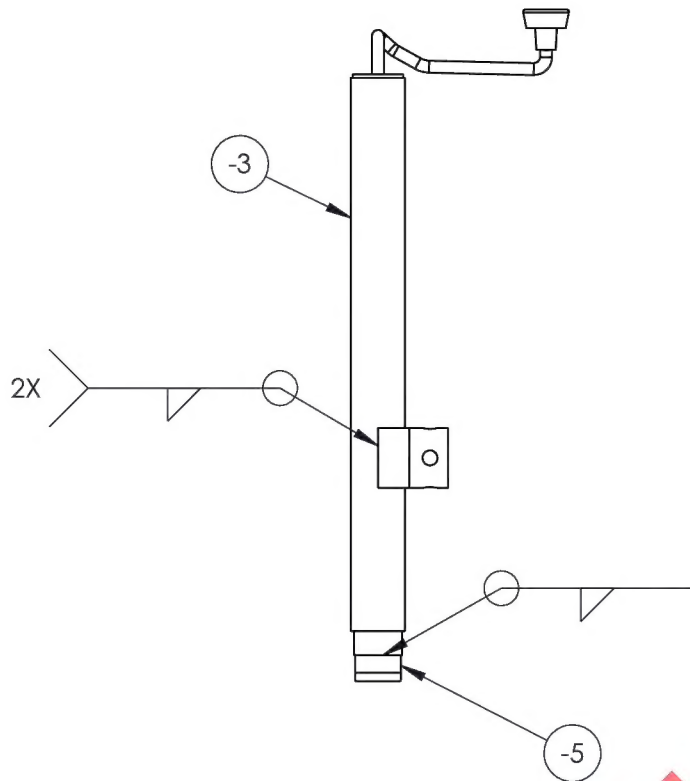


RED BARN MACHINE

TITLE		FORWARD AIR TRANSPORT SHORING JACK	
DWG NO.	RBT18402		REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		DRAWN BY: GILBERT	
TOLERANCES ON:		APPROVED <i>D Weil</i>	
DECIMALS		HEAT TREAT	
.XXX ± .005		FINISH	
.XX ± .01		SPEC	
.X ± .1		USED ON MODEL	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING		FIRE SCOUT MQ-8B	
SCALE	1:12	DATE	1/14/2011
		SHEET 1 OF 13	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED JACK FROM 178101 TO 178151, SHT 2 TUBULAR MOUNT LOCATION CHANGED, SHT 3 8-32 LOCATION MOVED	2/11/2011	JAG	



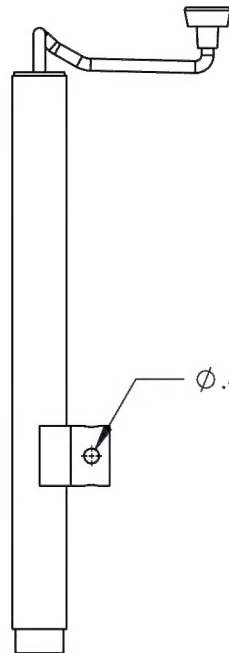
NOTE:
 1. ALIGN -5 AS SHOWN FOR WELDMENT
 2. REMOVE TUBULAR MOUNT AND REWELD TO JACK AT HEIGHT SHOWN. JACK TO BE FULL RETRACTED.

(-1)
 JACK WELDMENT

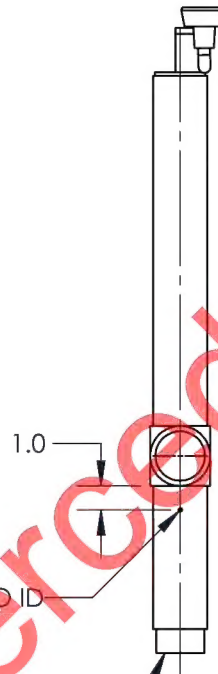
RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-1	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH POWDER COAT RED SPEC RAL 3020 USED ON MODEL FIRE SCOUT MQ-8B
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	SCALE 1:8 DATE 1/14/2011 SHEET 2 OF 13

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1	CHANGED JACK FROM 178101 TO 178151, SHT 2 TUBULAR MOUNT LOCATION CHANGED, SHT 3 8-32 LOCATION MOVED	2/11/2011	JAG	



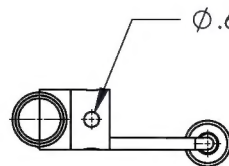
Ø .630 DRILL AND REAM



1.0

8-32 UNC THRU TO ID

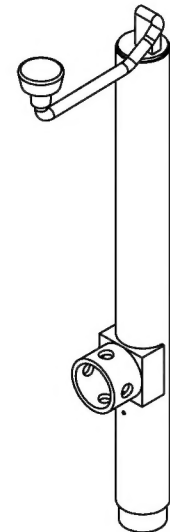
REMOVE FOOT RETAINING
MAXIMUM TUBE LENGTH




Ø .630 DRILL AND REAM

③

JACK

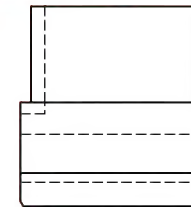
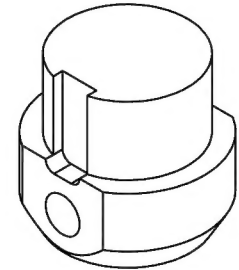
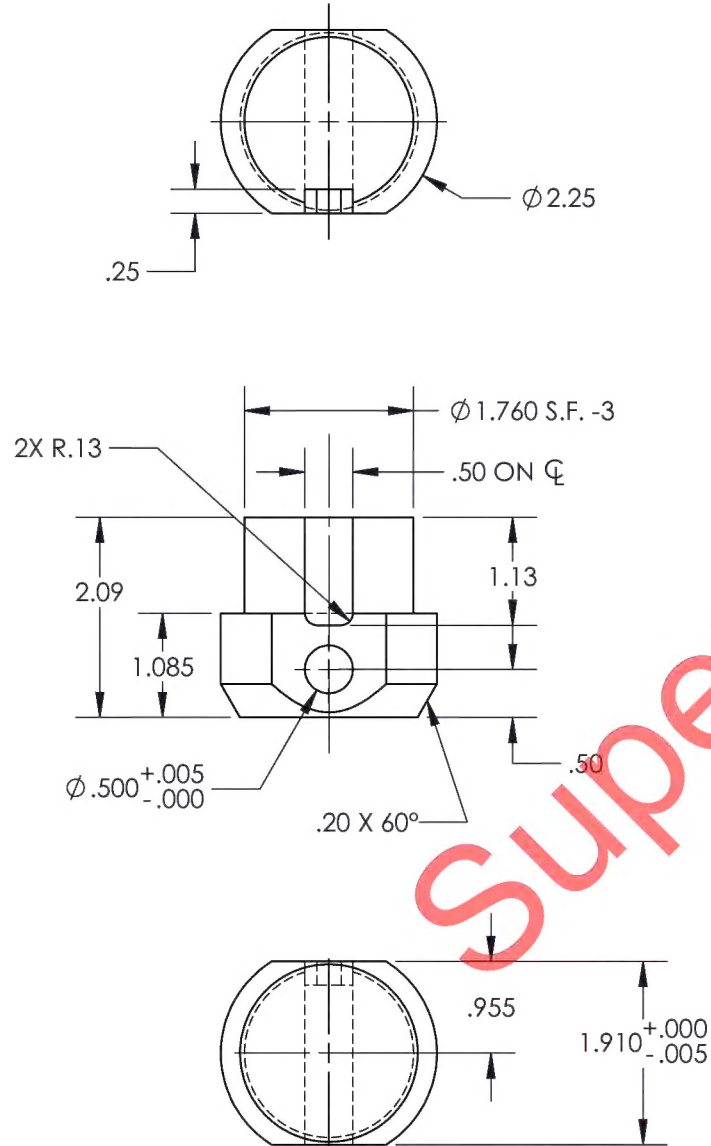


NOTE:
REMOVE HANDLE ASSEMBLY, THEN SLIDE OUT
INNER TUBE ASSEMBLY BEFORE DRILLING
AND TAPPING. ENSURE TAPPED HOLE ALIGNS
WITH GROOVE IN INNER TUBE ASSEMBLY.

 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-3	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± .5°	DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIRE SCOUT MQ-8B
SCALE 1:8	DATE 1/14/2011
SHEET 3 OF 13	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

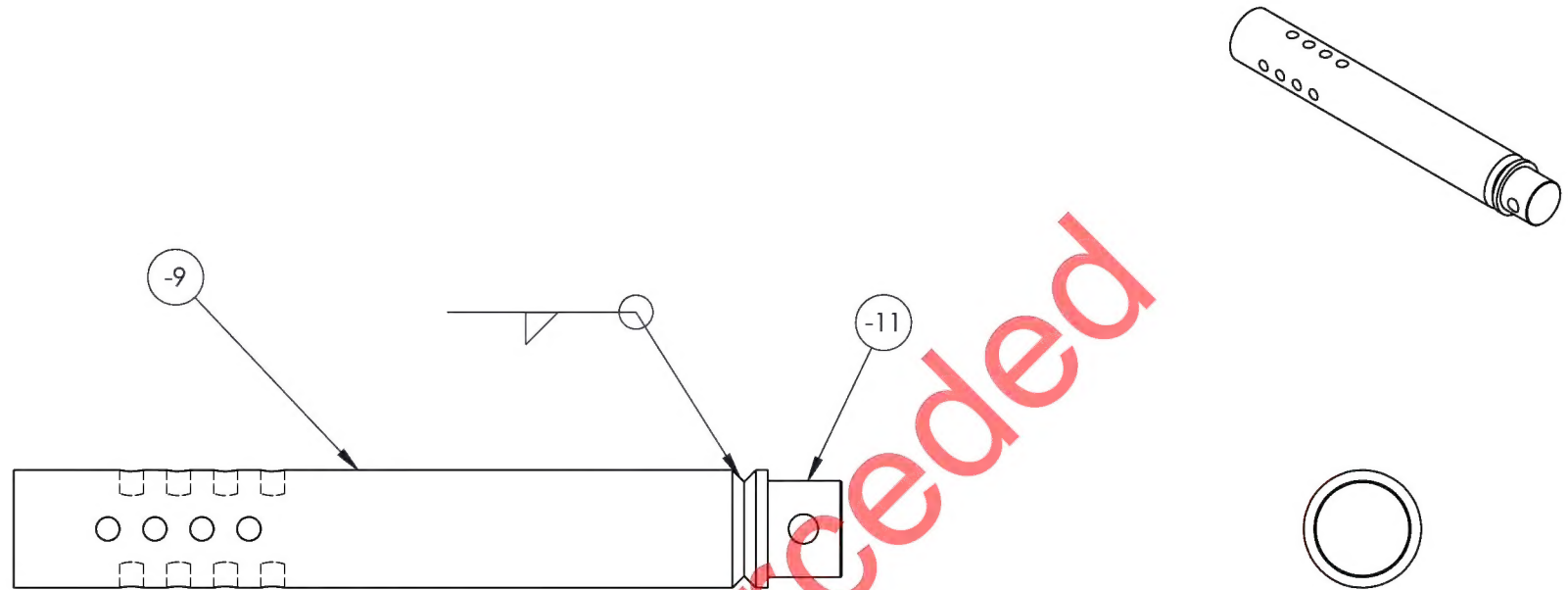


(-5)
FOOT ADAPTOR MOUNT

RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-5	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± .5°	DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT: FINISH: SPEC:
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIRE SCOUT MQ-8B
SCALE 1:2	DATE 1/14/2011
SHEET 4 OF 13	


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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



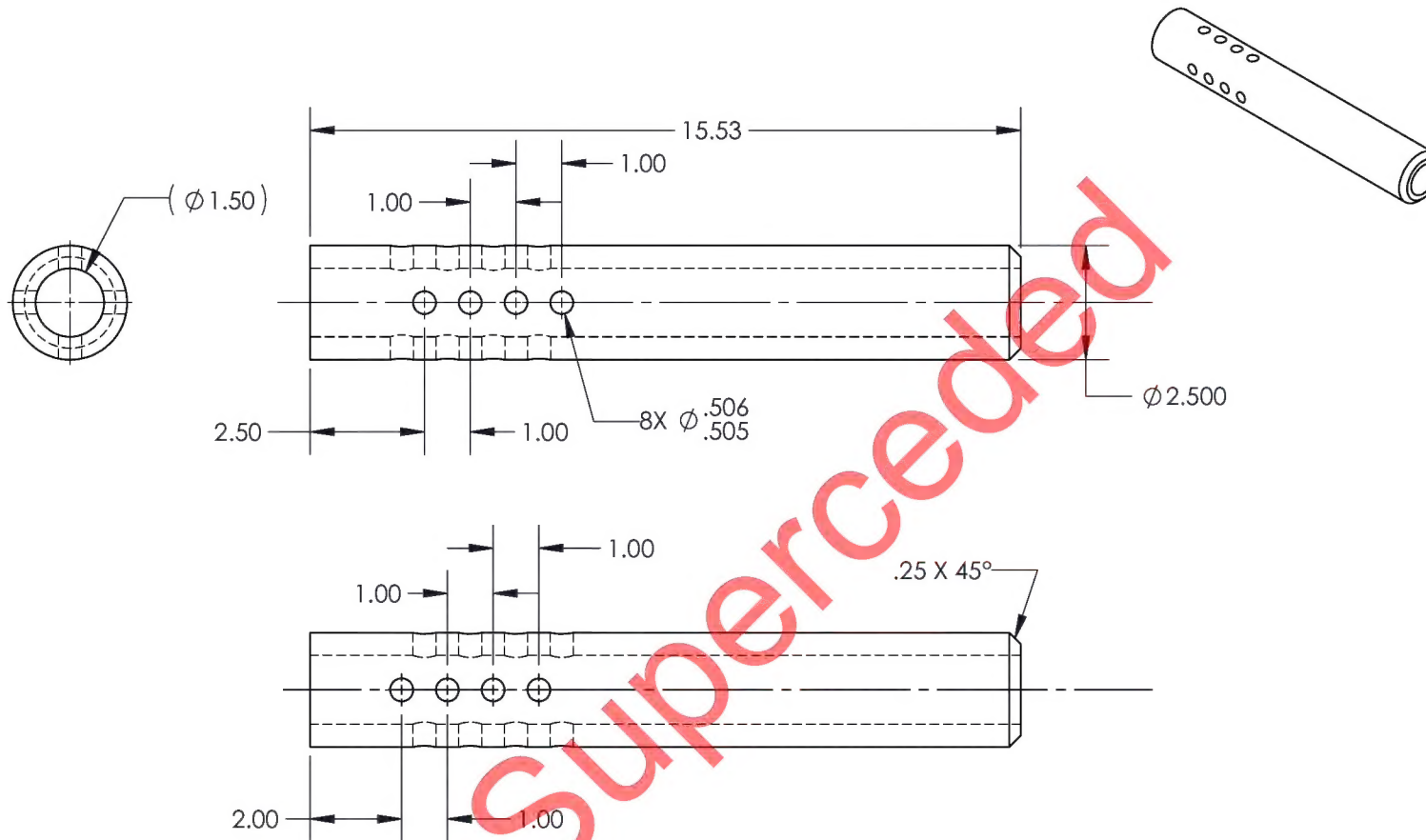
(-7)
TUBE INSERT WELDMENT

NOTE:
ALIGN WELDMENT AS SHOWN.


 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-7	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± .5°	DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH ANODIZE RED SPEC MIL-A-8625F, TYPE II, CLASS II USED ON MODEL FIRE SCOUT MQ-8B
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:4	DATE 1/14/2011
SHEET 5 OF 13	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED

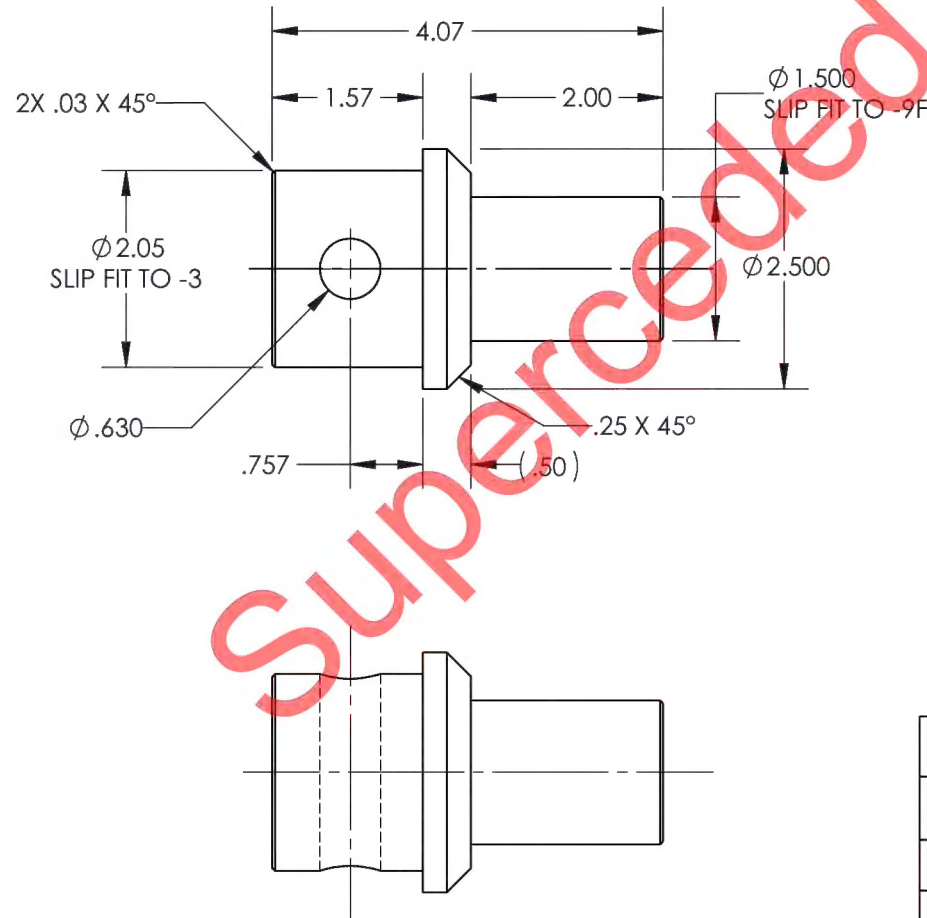
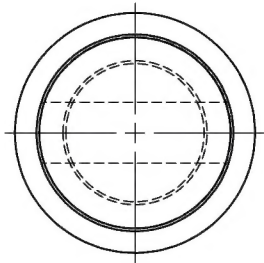
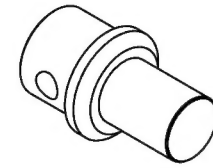


⑨
TUBE

 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-9	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± .5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:4	DATE 1/14/2011
SHEET 6 OF 13	


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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



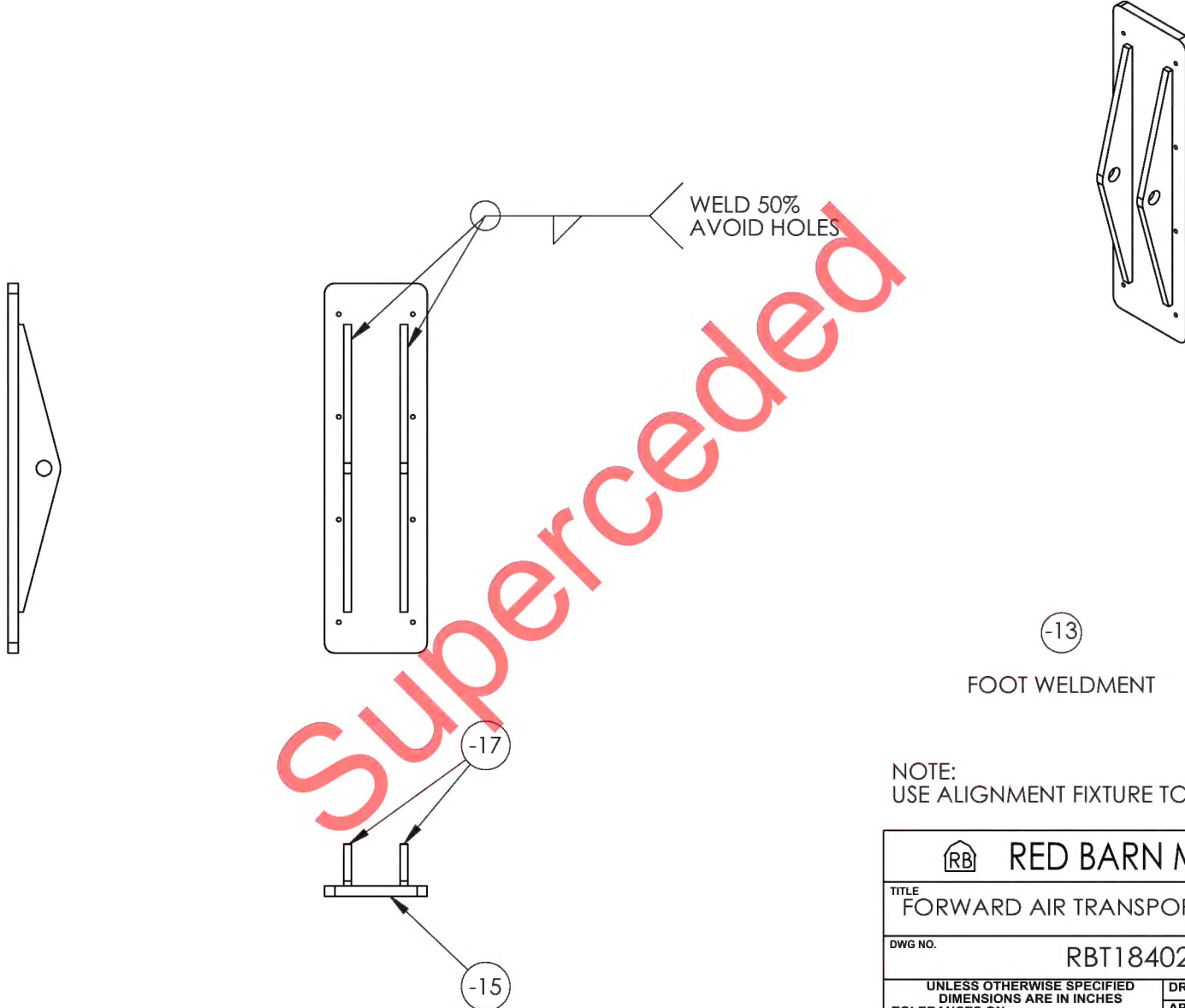
(-11)

ADAPTOR PLUG

 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-11	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC USED ON MODEL FIRE SCOUT MQ-8B	
SCALE 1:2	DATE 1/14/2011
SHEET 7 OF 13	


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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED



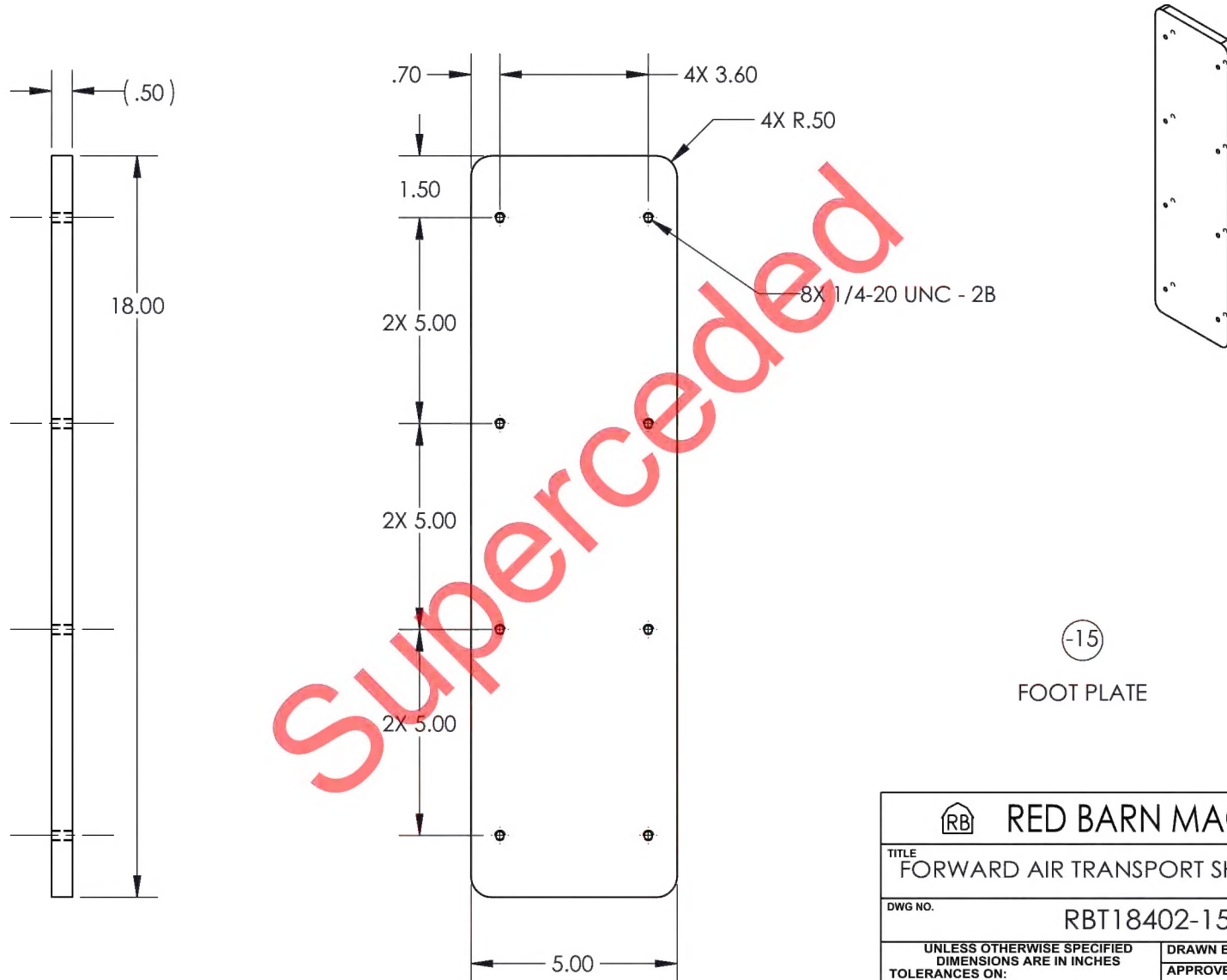
FOOT WELDMENT


NOTE:
USE ALIGNMENT FIXTURE TO POSITION

 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-13	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± .5°	DRAWN BY: GILBERT APPROVED <i>D Weil</i> HEAT TREAT FINISH POWDER COAT RED SPEC RAL 3020 USED ON MODEL FIRE SCOUT MQ-8B
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 1/14/2011
SHEET 8 OF 13	

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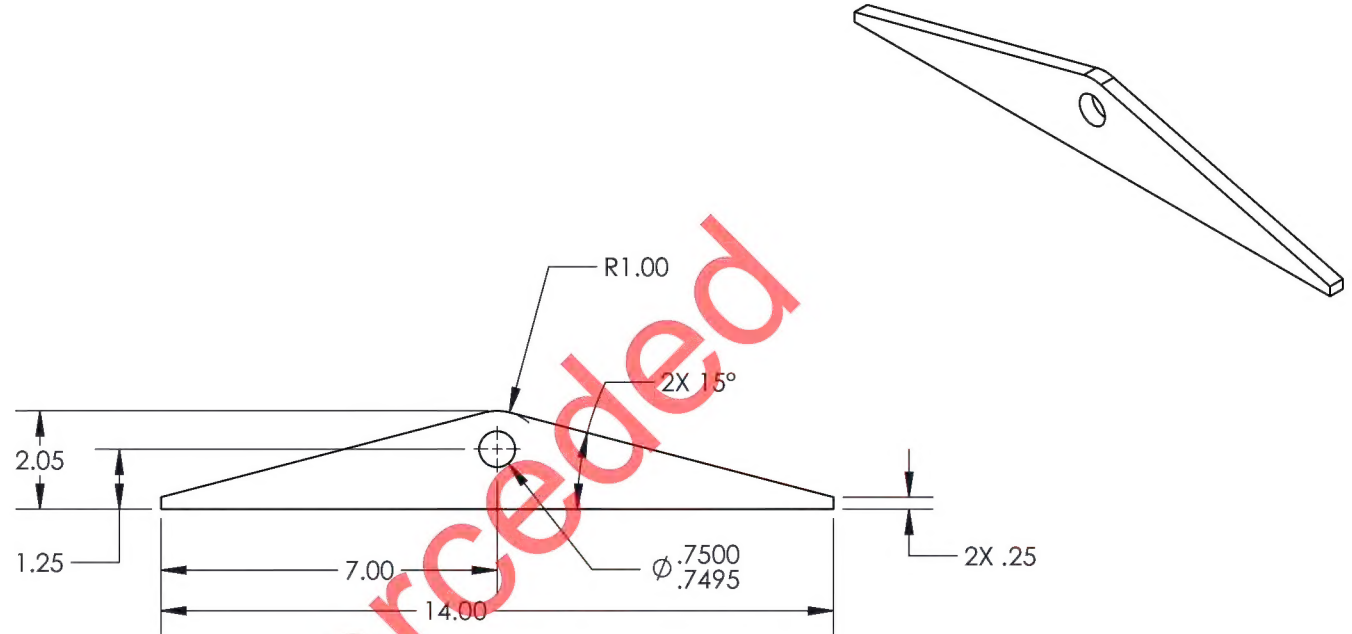
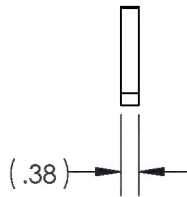
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL



 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-15	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1	DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIRE SCOUT MQ-8B
SCALE 1:4	DATE 1/14/2011
SHEET 9 OF 13	


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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED



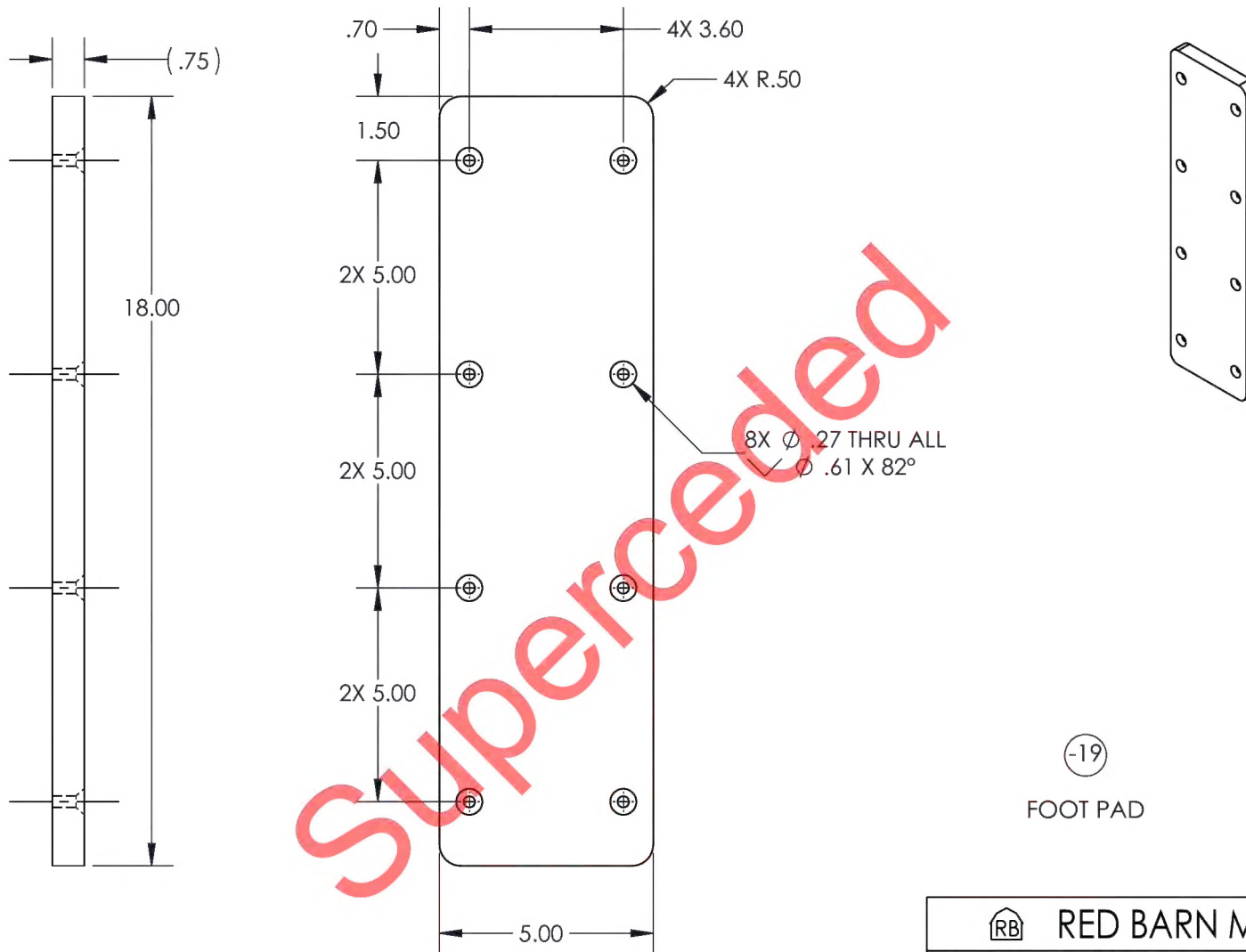
(-17)

GUSSET


 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-17	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIRE SCOUT MQ-8B
SCALE 1:4	DATE 1/14/2011
SHEET 10 OF 13	

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REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
			APPROVED



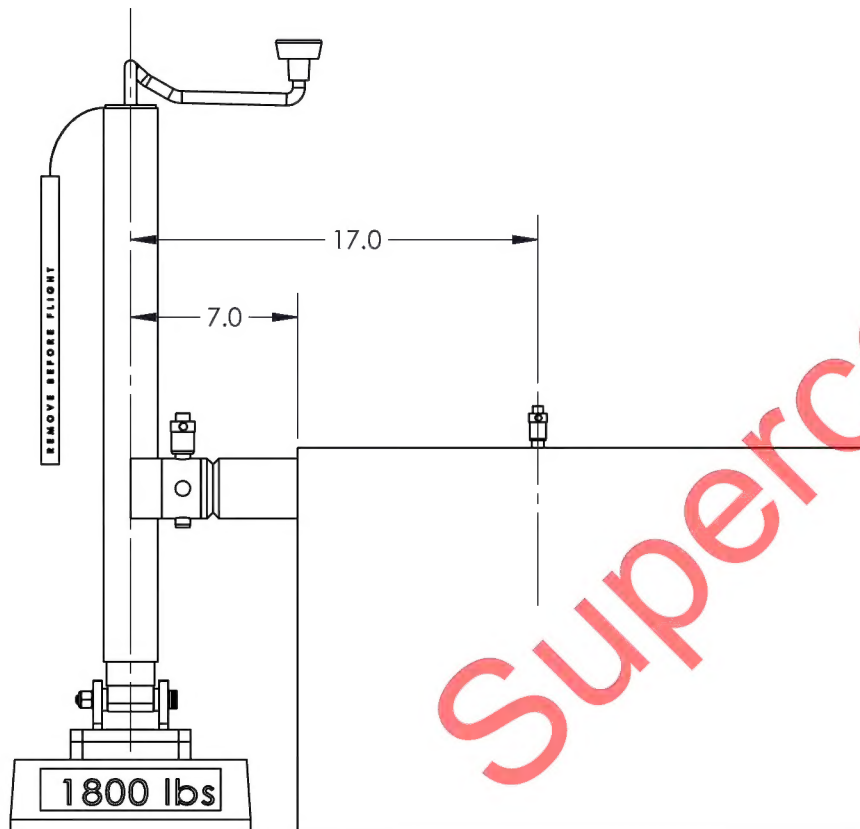
(-19)
FOOT PAD

 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402-19	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± .5°	DRAWN BY: GILBERT APPROVED: <i>D Weil</i> HEAT TREAT FINISH SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL FIRE SCOUT MQ-8B
SCALE 1:4	DATE 1/14/2011
SHEET 11 OF 13	

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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1A	CHANGED WEIGHT FROM 3500 TO 1800	2/25/2011	JAG	

RED BARN MACHINE
190 S. DANEBO AVE., EUGENE OR. 97402
(541)344-9953; fax (541)344-3863
e-mail; sales@redbarn.net



INSPECTION & TESTING PROCEDURES FOR THE RBT18402 JACK ASSEMBLY. THIS ASSEMBLY IS DESIGNED TO LIFT A FIRE SCOUT FOR TRANSPORT. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

91 DAY INSPECTIONS

1. CLEAN ENTIRE UNIT AND REMOVE CORROSION
2. CHECK ENTIRE UNIT FOR STRESS CRACKS, BENDING, OR DISTORTIONS.
3. CHECK WELDS FOR ANY CRACKS OR DISTORTIONS.
4. CHECK THREADS FOR DAMAGE, STRESS CRACKS STRECHING, OR DISTORTIONS.
5. REPAINT IF NECESSARY.

IF ANY OF THE ABOVE CONDITIONS EXIST, OR ARE SUSPECTED OF EXISTING. DO NOT USE THE TOOL UNTIL IT HAS BEEN REPAIRED AND TEST OR REPLACED.

3 YEAR WEIGHT TESTING

1. AFTER INSPECTION, PLACE JACK ASSEMBLY ON A CALIBRATED SCALE. PLACE TUBE IN AN APPROPRIATE FIXTURE TO 7.0in AS SHOWN. USE BALL LOCK PIN TO LOCK INTO FIXTURE IN OUTBOARD HOLE (17.0in).
2. ENGAGE JACK UNTIL THE SCALE READS 1800 lbs. , FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT JACK, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

 RED BARN MACHINE	
TITLE FORWARD AIR TRANSPORT SHORING JACK	
DWG NO. RBT18402	REV 1A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 .XX ± .01 .X ± .1 FRACTIONS ± 1/32 ANGLES ± 5°	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR .015 R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE 1:8	DATE 1/14/2011
DRAWN BY: GILBERT APPROVED: <i>D Weil</i> USED ON MODEL FIRE SCOUT MQ-8B CUSTOMER SHEET 1 OF 1 SHEET 12 OF 13	

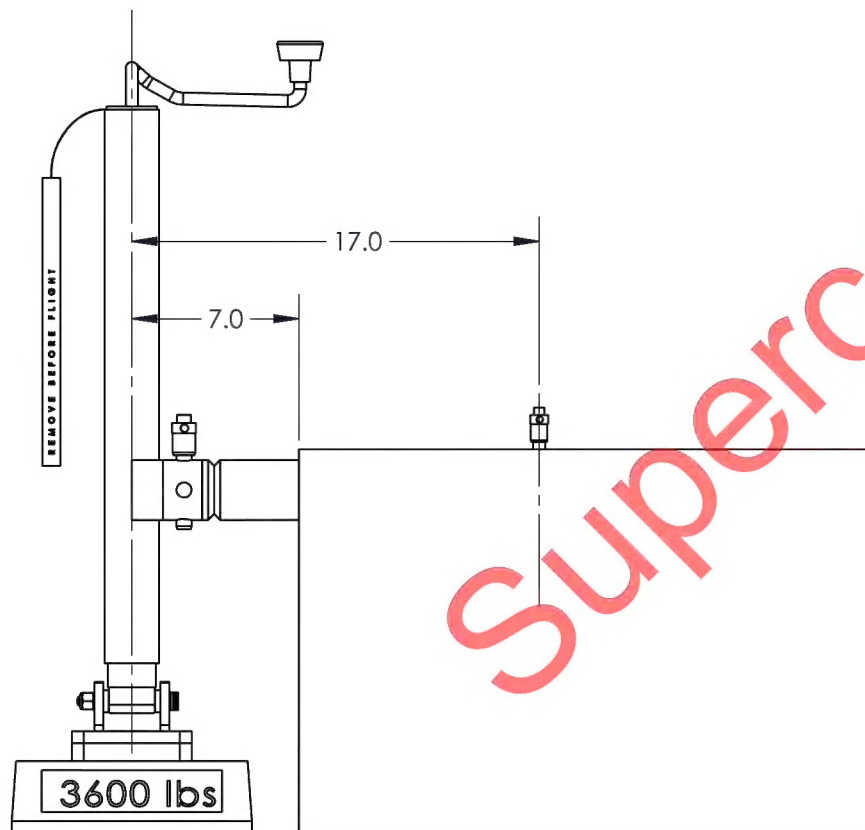
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REVISIONS				
REV	DESCRIPTION	DATE	INITIAL	APPROVED
1A	ADDED THIS SHEET	2/25/2011	JAG	

RED BARN MACHINE
190 S. DANEBO AVE., EUGENE OR. 97402
(541)344-9953; fax (541)344-3863
e-mail; sales@redbarn.net

INSPECTION & TESTING PROCEDURES FOR THE RBT18402 JACK ASSEMBLY. THIS ASSEMBLY IS DESIGNED TO LIFT A FIRE SCOUT FOR TRANSPORT. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE.
REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

FIRST ARTICLE WEIGHT TEST



FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE JACK ASSEMBLY ON A CALIBRATED SCALE. PLACE TUBE IN AN APPROPRIATE FIXTURE TO 7.0in AS SHOWN. USE BALL LOCK PIN TO LOCK INTO FIXTURE IN OUTBOARD HOLE (17.0in).
2. ENGAGE JACK UNTIL THE SCALE READS 3600 lbs. , FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT JACK, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR _____

TESTER _____

S.N. _____

DATE _____



RED BARN MACHINE

TITLE
FORWARD AIR TRANSPORT SHORING JACK

DWG NO.

RBT18402

REV
1A